



Vineyard and Orchard Shredders

BV 10 - 100 - 1000 / BVR 100 - 1000

TRP - TRP PRO REV - TRP RT - TRP CV / TDP 1000 / SDS





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Vineyard and orchard shredders

FOR EACH VINEYARD AND ORCHARD A SHREDDER!

IN VINEYARDS AND ORCHARDS, SHREDDERS HAVE MANY AGRONOMIC BENEFITS. INTER-ROW MANAGEMENT IS JUST AS IMPORTANT AS SHREDDING PRUNINGS WHICH CAN BE RECOVERED TO SERVE AS HEATING FUEL. FINE SHREDDING IS KEY FOR ACCELERATING DECOMPOSITION AND TRANSFORMATION INTO HUMUS AS WELL AS FOR CONTROLLING CERTAIN PESTS, DISEASES AND WEEDS.



KEEP PLANTATIONS HEALTHY. Prunings are ideal environments for harmful pests and diseases. The finer the shredding the better the decomposition. No harmful species will develop and the quality of wine and fruits is preserved.

SUPPORTING THE SOIL MEANS SUPPORTING THE PLANT. Fine shredding increases the surface area of the organic matter that micro-organisms transform into humus. High humus content means that more nutrients are available to feed the crop and fertilise the soil. It also improves soil structure and stability as well as increasing biological activity.

REDUCING THE USE OF HERBICIDES. Shredding inter-row grass cover, before seed development, is an effective measure against the spread of weeds. This mechanical weed control means less herbicide between the rows.

BV 10 | 12 | 14 | 16 | 160 | 180 | 200 | 220 | 240

YOUR ALLIES FOR FINE-SHREDDING ALL OF YOUR WINDROW

The hood opens to 29 cm on the BV 10 series and 32 cm on the BV 100 series: among the biggest openings on the market!
And exactly what you need for collecting windrows of vine shoots!

With 1.2 kg hammer knives, 3 counter blades as standard, and a 398 mm rotor, you'll get high quality shredding and fast residue decomposition.





Shredders adapted to your operations

The BV 10 series couples to tractors of up to 90 hp and the BV 100 series up to 110 hp. The high-performance central gearbox and belts provide greater power transmission. The reliable drive system requires little maintenance, saving time and money. The low-hood design passes under branches without damaging them.

Great versatility

Choose the shredder adapted to your rows! BV 100 series machines come in five working widths with the possibility of side offset, to shred right up to your plantations.



Extreme reliability

The updated design of the hammer knives prevents any damage to the rotor tube in the event of impacts and rearward thrust. The risk of vibrations, tube deformation and rotor imbalance is reduced.



Save time and money

The rollers with removable ends are adjustable. Any maintenance work is made quickly and at lower cost.



A lot of equipment

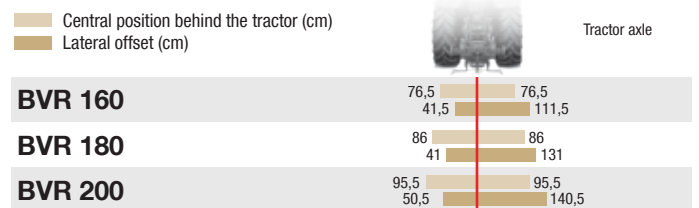
With all of the optional equipment (collecting rake, hydraulic mow-around disc...), BV 10 series models adapt to your land perfectly.

THE ART OF SHREDDING FINELY, EVEN THE THICKEST BRANCHES

The new range of BVR 100 series shredders is ideal for shredding high volumes of thick branches up to 8 cm in diameter, grasses and undergrowth. Opt for a fixed coupling system for use at the front or reversible coupling with hydraulic offset for front or rear use.

SUITED TO VINEYARDS AND ORCHARDS

Save time and money with this machine. BVR 100 series models are adapted to tractors up to 110 hp. Power transmission is much more effective with the PowerQuad IV belts and central gearbox. The reliable drive system requires little maintenance, resulting in time and money savings. The low-hood design and wide opening passes between plantations without damaging them.



Extreme reliability

The updated design of the hammer knives prevents any damage to the rotor tube in the event of impacts and rearward thrust. The risk of vibrations, tube deformation and rotor imbalance is reduced.

Offset feature to get in close to your trees

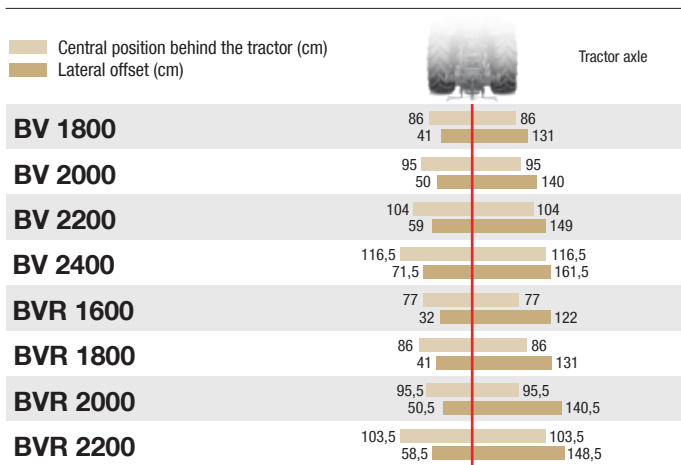
Every shredder model has a lateral offset feature to enable the tool to work extremely closely to plantations.

PERFECT FOR YOUR ORCHARDS!

BV 1000 series and BVR 1000 series shredders have joined KUHN's range of grass and branch shredders for orchards. They come in 4 working widths from 1.72 to 2.33 and 1.54 to 2.07 m, particularly adapted to shredding high volumes of branches, and very large diameters (up to 12 cm), as well as grasses and undergrowth.

HEAVY-DUTY SHREDDING FOR WOODY RESIDUES

Collecting large volumes of prunings is made easy with the 38 cm very large hood opening! Featuring a 457 mm diameter rotor, 2.2 kg heavy hammer knives mounted on aggressive holders and 3 counter-blades as standard, shredding quality is high and decomposition is fast, even with the woodiest residues. With such high-capacity shredding capabilities, these tools make easy work of olive, orange and walnut branches.



Adapted to your orchards

BVR shredders are highly versatile with front and rear coupling with hydraulic offset (450 mm). BV shredders are rear machines and also boast hydraulic offset, 450 mm to the right

Work with peace of mind

Equipped with low hoods, both models work smoothly under branches of plantations without damaging them. They are designed with double-thickness hoods for guaranteed strength.

HOW TO COPE WITH STONY WORKING CONDITIONS

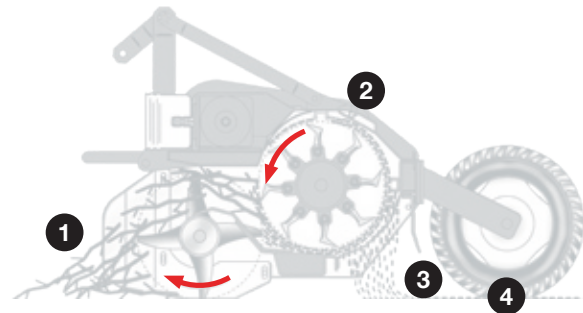
These over-ground shredders shred vineyard and orchard prunings efficiently, even in difficult conditions such as on bare soil. TRP models are fitted with a pick-up which carefully rakes all residues, to be shredded, into the casing, while keeping impurities such as stones out.

Its robust design and components also contribute to a superior shredding performance. For very stony grounds, the pick-up can be fitted with collecting tines. TRP models are available in four widths for inter-row spacings of 0.95 m/3'1", 1.20 m/3'10", 1.45 m/4'8" and 1.73 m/5'8".



DESIGNED FOR EXEMPLARY AGRONOMIC RESULTS

1. No shoots are left on the ground. The pick-up rakes the residues effectively into the casing.
2. Residues are shredded inside the reinforced chamber.
3. Residues that can pass through the calibrated grate are ejected. Result: fine and evenly shredded residues.
4. Even distribution of the shredded residues over the working width contributes to decomposition.



A robust design

- Thick sections make the machine's frame very rigid.
- The lower part of the shredder is strengthened to withstand impacts with stones or the ground.
- Sheet metal lining is welded to the shredder casing.



A drive system that never falters

The oversized drive chain can withstand considerable stress, particularly in difficult conditions. There are two pick-up drive versions available: the mechanical version comes with a torque limiter that protects all the components (friction limiter on TRP 120/145/175). The hydraulic drive system is fitted with an oil-flow adjustment valve.



A gearbox designed to last

Two reliable gearbox versions are available:

- gearbox with two output shafts (1 for the rotor, 1 for the pick-up) on the mechanical version,
- gearbox with one output for the rotor on hydraulic version.



Fine shredding of vine shoots

A grate with 35 mm-diameter holes ensures very fine and uniform shredding as only the shredded residue which is fine enough can pass through.



Easier access

The opening rear hood makes it easy to change the shredding tools and saves you time.



Coping with stony ground

In flat grassy fields, height is adjusted by roller: the machine remains stable when passing over ruts. In stony ground, fixed or semi-pivoting wheels absorb the shocks of uneven ground.

In very stony ground, the pick-up can be fitted with height-adjustable collecting tines which are held off the ground to avoid collecting stones.

TRP 175 PRO REV

FARMERS ARE SAYING THANK YOU

The TRP 175 PRO REV is designed to work in the most challenging conditions, especially in orchards with thick branches such as olive, orange, lemon and almond trees.

Fruit growers can shred large volumes of residues and thick branches at high speeds and without damaging the underside of the tractor. The shredder can be mounted at the front, at the rear or with reverse drive-station tractors.



1. A robust tool to shred large branches

This unique rotor (457 mm Ø) is equipped with 1.65 kg heavy hammer knives which are mounted with 25 mm pins. It can reach a speed of 3100 min⁻¹.

It features toothed heavy hammer knife holders that are welded onto the rotor tube in a helical arrangement. They grab the residue that remains inside the chopping chamber until it is finely and uniformly shredded.

When shredding large windrows or thick branches the toothed holders act as fixed blades, so it is possible to carry out fine shredding in a single pass at high working speed.

Three counter-knives improve shredding quality even further.



High capacity shredding

The shredder features a large-volume chamber which is fitted with a hydraulic pick-up system with adjustable speed to optimise collection, even on stony ground and at high speeds. There are two rear grates made of high strength Domex steel with 60 mm holes that guarantee very fine shredding. The upper grate is hinge mounted so it can easily be opened to access the rotor.



A reversible machine

With central gearbox and integrated double free wheel, the shredder is reversible.

It can be mounted to the front, rear or in reverse drive so that it can work forwards or backwards.



An effective front hood

The shredder's front hood is fixed as standard. A hydraulically adjustable front roller can be fitted on the hood as an option in order to adapt to the volume of residue. There's no doubt about it, you'll get the job done faster!



TRP 145 CV | 175 CV

COLLECT THE PRUNINGS IN BULK

TRP CV models are equipped with a chute for collecting the shredded residue in bulk and loading it onto a trailer. Collecting the residue means that the entire vine plant can be used. Shredded vine branches can be used for heating or compost for example.

VINE SHOOTS: GREEN ENERGY!

Prunings are an economical and ecological source of energy. They can be collected when shredding with easy-to-use collection systems. KUHN has designed systems with bags and chutes to collect the shredded product that can be used as a cost-effective source of heating fuel produced ecologically on the farm. It is a renewable energy that reduces CO2 emissions. Collecting vine shoots also helps reduce wood diseases.



A versatile chute

Depending on how you can position the trailer, the chute can be directed:

- to the back,
- 90° to the left/right.

The chute cap can be adjusted hydraulically to control the flow.

Better visibility

The chute is foldable for travel on the road.

TRP 120 RT | 145 RT | 175 RT

COLLECT AND SHRED PRUNINGS

Designed for collecting woody residues in vineyards and orchards, the TRP RT is an overground shredder equipped with a special 800-litre capacity nylon bag. The patented bag material is perforated to limit fermentation. A practical advantage: shredded residues can be stored directly in the bag to dry for energy purposes.

EXCEPTIONAL SHREDDING QUALITY

The shredded product needs to be uniform in size to be used as boiler fuel. A rotor with eight rows of heavy hammer knives working at high speed and a shredding chamber equipped with four counter-blades contribute to impeccable shredding from the TRP CV and TRP RT series.



Easier handling with telescopic mast

The TRP RT shredder enables the user to:

- either lower the filled bag to the ground,
- or load it directly onto a trailer.



Height control

Two height control systems are available:

- fixed side wheels,
- 180 mm-diameter roller with removable ends.



Adjustable pick-up drive system

TRP CV and RT shredders have hydraulic pick-up drive as standard. This system makes it possible to:

- adjust pick-up rotation speed,
- reverse rotational direction of pick-up if a problem occurs.

TDP 1600 | 2000 | 2200 | 2250

ENDLESS SHREDDING



The new TDP 1000 series shredder is designed for intensive shredding in high volumes of prunings. It can be positioned at the front of the tractor or at the rear in reverse drive to cope with very high volumes. It is the ideal implement for shredding very large diameter branches (up to 12 cm).

With such high-capacity shredding capabilities, it makes easy work of olive, orange, chestnut and walnut branches.

This reliable tool requires little maintenance, so saves you time and money.



Such versatility...

The main gearbox has a double free wheel for machine coupling:

- at the front
- at the rear in reverse drive.

It improves power transmission which means the tool can be coupled to tractors of up to 150 hp. The fixed coupling system makes it easier to collect branches in large windrows.



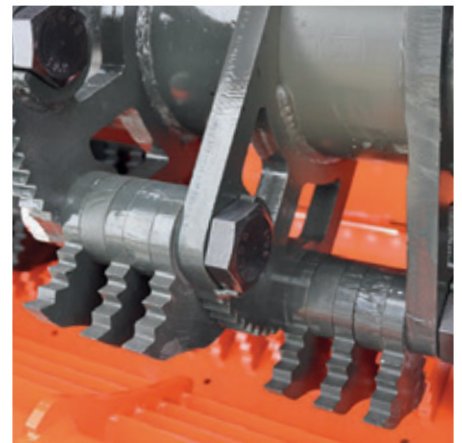
Designed for high volumes of residues

The double pick-up with hydraulic drive is controlled from the tractor directly. It creates a smooth and regular flow of prunings, even with large branches. The wheels, positioned at the back, take care of working-height control. The tool is robust with its double-thickness casing in heavy-duty steel.

A robust and reliable shredder for intensive jobs

The TDP 1000 series shredder includes exclusive features to ensure the strength and reliability required for intensive operations, especially in very woody orchards:

- The 510 mm large-diameter XP rotor reaches a peripheral speed of 75.5 m/s at work.
- The tools have two aggressive sides that can pivot 360° to prevent breakage.
- Two counter-blades with individually replaceable tools and two abrasive sides cut residues like knives.
- A unique Agripower belt with 5 strands provides high power transmission. Excellent shredding quality results in fast and total decomposition of even the woodiest residues.



MAKING USE OF SHREDDED GRASS



The SDS (Side Delivery System) range has been developed to shred grassy areas in plantations and deliver the shredded grass as mulch on the row. This enables you to control grass growth on the row mechanically, provide organic matter for the plants and preserve humidity at root level. Delivering mulch on the row is an effective way of reducing water evaporation and protecting the soil's surface from solar radiation.

Scarce water resources are kept in the soil for the vines and trees. Furthermore, using mulch as an alternative to weeding reduces the consumption of phytosanitary products in vineyards and orchards.

A VERY CLEVER DESIGN



1. Shred vine shoots easily

If required, the delivery system can easily be removed from the shredder which has only seven screws. After removal, the rear shredder hood is closed to ensure total safety.

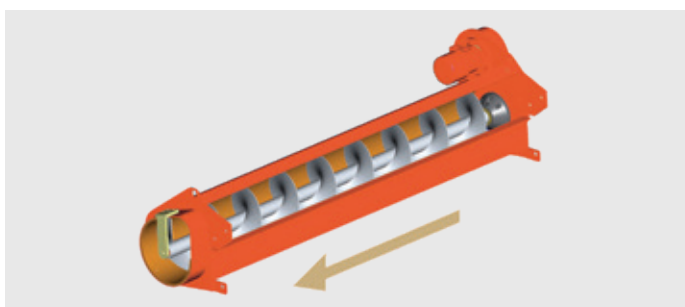
2. Optimised shredding chamber

The shredding chamber is fitted with two counter-blades for work in vineyards and orchards. They are highly effective in combination with the heavy hammer knives for reshredding grass and vine shoots in order to prevent the transfer screw from jamming.



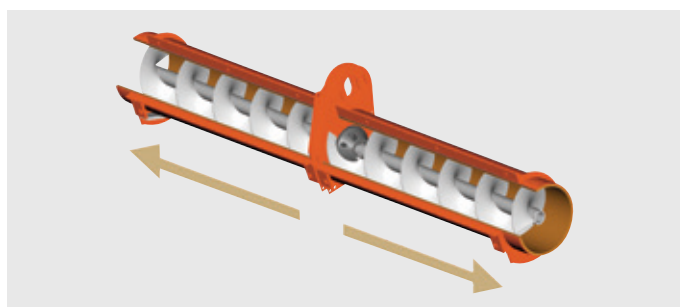
A UNIQUE DELIVERY SYSTEM

A hydraulically driven single-pitch or double-pitch wormscrew is directly connected to the tractor outlet for side delivery. Rotation speed of the wormscrew is adjustable so as to adapt to working conditions: volumes of vegetation and ground speed.



For orchards: single side delivery

This is the ideal solution for large plantations such as orchards. The SDS with single side delivery lets you work back and forth between each row. All SDS models with single side delivery have a coupling system with hydraulic side shift for delivering the mulch closer to the plants.



For vines: delivery on both sides

Suitable for vines from 2.25 m/7'5" to 3.00 m/9'10", SDS tools with delivery on both sides shred and deliver grass to the row in a single pass. Machine coupling is rigid and central with this version.

Technical specifications

	BV													
Model	10	12	14	16	160	180	200	220	240	1800	2000	2200	2400	160
Working width (m)	0.96	1.15	1.34	1.53		1.72	1.91	2.09	2.28	1.72	1.90	2.08	2.33	1.53
Overall width (m)	5.00	1.27	1.48	1.67		1.86	2.07	2.25	2.44	1.95	2.13	2.31	2.55	1.67
Min. tractor power requirement (kW/hp)	26 / 35	29 / 40	33 / 45	37 / 50		44 / 60	48 / 65	51 / 70	55/75		59 / 80	63 / 85	66 / 90	37 / 50
Max. authorized DIN motor power at 1,000 min ⁻¹ (kW/hp)	67/90				81/110				110/150					
Lateral offset (mm)	-				350		450				350			
Height adjustment	by roller with removable ends													
Type of tools	heavy ham													
Number of tools	12	16		18	20	22	24	20	24		16			
Rotor speed (min ⁻¹)	2404				2325									
Free wheel														
Number of belts	2	3		4		2+2								
Outer rotor diameter (mm)	398				423				457					
Bag volume (l)	-													
Max. bag load (kg)	-													
Weight with equipment (kg)	330	360	390	440	520	560	620	680	730	900	970	1040	1140	650

* at a rotation speed of 1,000 min⁻¹ - not available

Some models are not available in all countries. Please contact your Authorised Dealer for information on this.



KUHN PARTS



Designed and manufactured to rival time. KUHN foundries and forge as well as a high-level manufacturing process allow the production of spare parts to defy time. You can truly rely on our know-how and our genuine parts. Farmers benefit from our client support and logistics services via any KUHN PARTS warehouse, which provide quick and reliable repair solutions in cooperation with your nearest authorized KUHN dealer.

BVR						TRP								TDP				SDS		
180	200	1600	1800	2000	2200	95	120	145	175	175 PRO REV	120 RT	145 RT/ CV	175 RT/ CV	1600	1800	2000	2250	150	180	210
1.72	1.91	1.54	1.72	1.91	2.07	0.95	1.20	1.45	1.73		1.20	1.45	1.73	1.60	1.80	2.00	2.25	1.46	1.75	2.03
1.86	2.07	1.77	1.94	2.13	2.30	1.21	1.46	1.72	2.00		1.65	1.90	2.18	2.00	2.20	2.40	2.65	1.75	2.03	2.32
44 / 60	48 / 65	55 / 75	59 / 80	63 / 85	66 / 90	44 / 60	51 / 70	59 / 80	66/90		51 / 70	59 / 80	66 / 90	50 / 70	55 / 80	65 / 90	75 / 100	29/40		
74/110		115/160				88/120				110 / 150	88 / 120	96/130			110/150		70/95			
450						-												delivery to the right side: 370		
						by roller with removable ends, rigid or semi-pivoting wheels				by rigid wheels or roller				by rigid wheels				by roller		
mer knives												serrated knives				heavy hammer knives				
18	20	18	20	24		12	16	20	24		16	20	24	87	96	108	120	20	24	28
2204		2325				2188				3100	2600/3250*			2840				2207		
integrated in main gearbox																				
3	4					3	4	5	4	3	4	5	1 to 5 strands				3			
423		457				467				457	470			510				413	420	
											800 (only RT)			-						
											500/1102 (only RT)			-						
710	755	940	1030	1112	1200	625	790	950	1075	1150	1070	1200 1000	1300 1100	1300	1450	1620	1820	470	530	595

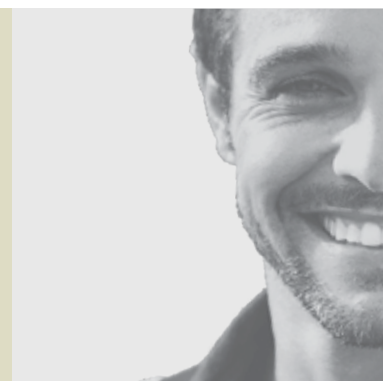
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KUHN sos order - Express spare parts service 24/7**

KUHN protect+ - The choice of professionals!

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* Not all services are available in all countries. ** except January 1, May 1 and December 25.

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Check out the whole KUHNS range of vineyard and orchard equipment



1. Power tiller - 2. Power harrow - 3. Fertiliser spreader - 4. Air-blast sprayer

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